

## STTR FY04 PH I By Company

COMPANY	TOPIC	TITLE
21st Century Systems, Incorporated	ARMY04-T001	Fielded Agent-based Geo-Analysis Network (FAGAN)
Activity Research Services	ARMY04-T025	Automated Behavioral Health Triage
AdveNSys, LLC	ARMY04-T009	Neuromorphic Control System for Powered Limb Splints
Agave BioSystems, Inc.	ARMY04-T028	Portable Cell Maintenance System
Alder Biopharmaceuticals Inc	ARMY04-T006	Development of New Production Technologies for Humanized Antibodies
ALTAIR Center, LLC.	ARMY04-T015	Tunable Terahertz-Frequency Lasers Based on Semiconductor Nanocrystals
ANP Technologies, Inc.	ARMY04-T022	Multiple Bio-Agent Detection with Low-cost Nanomaterial-based Devices
Antek	ARMY04-T013	Biologically Inspired Acoustic Direction Finding for Soldiers
Applied Spectra	ARMY04-T011	Nanoscale Chemical Analysis using Laser-Induced Breakdown Spectroscopy (nano-LIBS)
Aspen Systems, Inc.	ARMY04-T007	Nanocomposites with Independently Controlled Properties of the Thermoelectric Material for High Figure of Merit
AuSIM, Inc.	ARMY04-T013	Biologically Inspired Acoustic Source Localization System
Automatic Recognition & Control, Inc.	ARMY04-T005	Imaging Infrared System with Extended Depth of Field Focusing
BC International, Corp.	ARMY04-T019	Tactical Biorefinery for Forward Fuel Production
Biophotonic Solutions Inc.	ARMY04-T008	Fast Laser Pulse Shaping for Molecular Control and CB Detection
CBL Technologies, Inc.	ARMY04-T015	Quantum Dot Microcavity Terahertz Laser
Charles River Analytics Inc.	ARMY04-T002	Meta-Information Visualization to Enhance the Common Operational Picture (MIVEC)
CHI Systems, Inc.	ARMY04-T001	Terrain Analysis for Human-Robot Interaction (TAH-RI)
Cortec Corporation	ARMY04-T003	Corrosion Protection of Aluminum Aerospace Alloys by Biofilm Appliques
Defense Life Sciences, LLC	ARMY04-T019	Tactical Biorefinery for Forward Fuel Production
Dendritech, Inc.	ARMY04-T024	Highly Robust, Temperature-Stable, Nano-structured Fluoropolymers for Battlefield Resuscitation Applications
Echo Technical	ARMY04-T010	Isothermally Amplified Proximity Ligation Assays for Biothreat Agents
EIC Laboratories, Inc.	ARMY04-T021	Nanoporous Metallic Structures for Concentrating Hazardous Vapors
Erallo Technologies, Inc.	ARMY04-T026	GPS-Based Tracking System for Trauma Patients
Foster-Miller, Inc.	ARMY04-T003	A Novel Bio-Applique for Corrosion Protection
Foster-Miller, Inc.	ARMY04-T019	Advanced Thermal Conversion of Waste/Biomass for Forward Units Energy Production/Conversion
Foster-Miller, Inc.	ARMY04-T024	Improved Performance, Stable Artificial Oxygen Carrier for Battlefield Casualty Care
Fractal Systems, Inc.	ARMY04-T010	Direct Toxin-Specific Biowarfare Detector
Hyperion Biotechnology Inc.	ARMY04-T018	Biomarker Based Matrix That Predicts Levels of Physical and Cognitive Performance
IC Tech, Inc.	ARMY04-T013	Acoustic direction finding using biologically inspired techniques
International Biometric Group	ARMY04-T017	High Confidence Multimodal Biometric System
KaZaK Composites Incorporated	ARMY04-T023	Large Shape Memory Alloy Composite Structures for Seismic Resistant Building Applications
Kionix Inc.	ARMY04-T028	Portable Cell Maintenance System for Rapid Toxicity Monitoring
Lipomics Technologies	ARMY04-T020	Metabolomic Evaluation of Combat Personnel for Optimum Fitness and Performance
Lynntech, Inc.	ARMY04-T021	Novel Material for Capture and Spectral Detection of Hazardous Vapors
Microbial Insights Inc.	ARMY04-T018	Rapid Assessment of Individual Soldier Operational Readiness
MP Technologies, LLC	ARMY04-T012	Optimization of Strain-Balanced Heterostructures for High Power 4-5 Micron Quantum Cascade Lasers
NanoLab, Inc.	ARMY04-T007	Nanostructured Thermoelectric Composites
NAVSYS Corporation	ARMY04-T026	GPS-Based Tracking System for Trauma Patients

New Span Opto-Technology Inc.	ARMY04-T005	Non-conventional Imaging Lens With Extended Depth of Focus
Nomadics, Inc.	ARMY04-T027	Ruminant B-Lymphocyte Yellow Fluorescent Protein Aggregation Bioassay for Elk Chronic Wasting Disease
Omega Piezo Technologies	ARMY04-T007	Nanostructured Thermoelectric Composites
Omni Sciences, Inc.	ARMY04-T012	Mid-infrared Laser Based on Cascaded Raman Wavelength Shifting in Fibers
Operational Technologies Corporation	ARMY04-T022	Multiplexed-Magnetically Assisted Test Strips (M-MATS)
Opteos, Inc.	ARMY04-T014	Nonlinear-Optical-Based Vector Electric and Magnetic Near-Field Probing for Analysis of Electromagnetic Compatibility
Physical Sciences Inc.	ARMY04-T004	Metal Organic Framework Adsorbents for Fuel-Cell Relevant Small Molecules
Professional Services Group	ARMY04-T025	Automated Behavioral Health Triage
Proteus Optics LLC	ARMY04-T008	Fast Laser Pulse Shaping for Molecular Control and CB Detection
Radiation Monitoring Devices, Inc.	ARMY04-T011	Nanofiber LIBS for Nanoparticle Composition
Rules-Based Medicine	ARMY04-T018	Rapid Assessment of Individual Soldier Operational Readiness
Rural Technologies, Inc	ARMY04-T027	Development of Bioassays for Prion Infectivity Using Human, Deer, or Elk Cells
Schafer Corporation	ARMY04-T016	Smooth, Piecewise-Polynomial Terrain Representation Using Nontraditional Metrics
SDS International, Inc.	ARMY04-T002	Joint Visualization Module (JVM) for Enhanced Human-Computer Capabilities (Human-Computer Visualization)
Seismic Isolation Engineering, Inc.	ARMY04-T023	Development of Innovative Shape Memory Alloy Connections and Dampers for Frame Structures Under Extreme Loading
Silico Insights, Inc.	ARMY04-T020	A Metabolomic Framework in Predicting Optimal Fitness and Performance
Soar Technology, Inc.	ARMY04-T001	Interactive Terrain Analysis
Soar Technology, Inc.	ARMY04-T002	Human-Computer Visualization
Spaceflight Systems Corporation	ARMY04-T017	A Single Engine and Adaptive Multimodal Biometric System (SEA)
Synkera Technologies Inc.	ARMY04-T004	Metal-Organic Framework Adsorbents for Fuel Cell - Relevant Small Molecules
T/J Technologies, Inc.	ARMY04-T004	Metal-Organic Frameworks as Novel Adsorbents for Hydrogen Sulfide
Triton Systems, Inc.	ARMY04-T004	Selective Adsorbents for Fuel Cell Processors (1000-486)
Triton Systems, Inc.	ARMY04-T026	Trauma Patient Tracking System(1000-514)
Ultra-Scan Corporation	ARMY04-T017	High Confidence Multimodal Biometric System